

Ejercicio9sec2.1grossman1ed

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calcule el determinante de la siguiente matriz

$$A = \begin{pmatrix} -3 & 2 & 0 & 0 \\ -2 & -5 & 0 & 0 \\ 6 & 8 & 4 & 0 \\ 7 & 8 & 9 & 2 \end{pmatrix}$$

```
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| Sage Version 3.4, Release Date: 2009-03-11 |  
| Type notebook() for the GUI, and license() for information. |  
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```

Sage Version 3.4, Release Date: 2009-03-11

```
sage] A=matrix(QQ, [[-3,2,0,0],[-2,-5,0,0],[6,8,4,0],[7,8,9,2]])
```

```
sage] A
```

$$\begin{pmatrix} -3 & 2 & 0 & 0 \\ -2 & -5 & 0 & 0 \\ 6 & 8 & 4 & 0 \\ 7 & 8 & 9 & 2 \end{pmatrix}$$

```
sage] A.determinant()
```

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```
sage]
```

el determinante de la matriz dada en 152.